

553,801

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092192 A1

(51) International Patent Classification⁷: **C07H 11/00**,
13/06, 17/04, A61K 31/7024, A61P 31/06

(21) International Application Number:
PCT/EP2004/003830

(22) International Filing Date: 9 April 2004 (09.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03290965.7 18 April 2003 (18.04.2003) EP

(71) Applicant (for all designated States except US): **CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE** [FR/FR]; 3, rue Michel-Ange, F-75794 Paris Cedex 16 (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PUZO, Germain** [FR/FR]; 2, impasse Goudouli, F-31320 Auzeville Tolosane (FR). **GILLERON, Martine** [FR/FR]; 56, chemin del Prat, F-31320 Auzeville Tolosane (FR). **STENGER, Steffen** [DE/DE]; Hugentottenplatz 1, 91054 Erlanger (DE). **DE LIBERO, Gennaro** [IT/CH]; Peter Ochs Strasse 7, CH-4059 Basel (CH).

(74) Agents: **GROSSET-FOURNIER, Chantal** et al.; Grosset-Fournier & Demachy Sàrl, 54, rue Saint-Lazare, F-75009 Paris (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

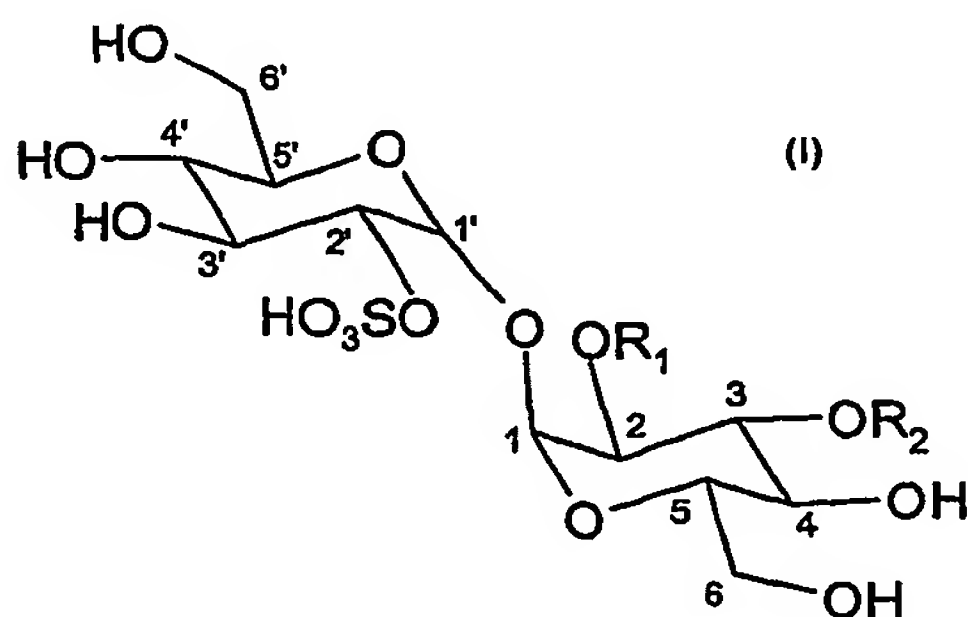
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SULFOGLYCOLIPID ANTIGENS, THEIR EXTRACTION FROM MYCOBACTERIUM TUBERCULOSIS, AND THEIR USE AGAINST TUBERCULOSIS**



(57) Abstract: The present invention relates to compounds of the following general formula: (I) wherein R₁ and R₂ are fatty acyl groups, a process to extract them from *Mycobacterium tuberculosis*, and their use in the treatment or the prophylaxis of tuberculosis.

WO 2004/092192 A1